ABSTRACT OF THE DISCLOSURE

A vehicle front-view monitoring system determines whether there is a fail occurring on the monitoring system based on luminance data on an image of a front view taken by camera and takes fail-safe measures if the fail is occurring. The luminance data indicates luminance-distribution characteristic values indicating horizontal luminance-distribution on the image. A fail can be determined based on a parameter obtained by normalizing the luminance-distribution characteristic values by a shutter speed for the camera equipment.